

AMENDMENTS

IN THE CLAIMS:

Please cancel claim 3 as indicated below. The following is a complete listing of claims and replaces all prior versions and listings of claims in the present application:

1. (Currently amended) A heat insulating and fire resistant composite material consisting essentially of:
 - (a) a first layer which comprises a surfactant component, surfactant-generated microcells, a gel catalyst component selected from the group consisting of thermosetting agents, vulcanizing agents, crosslinking agents and combinations thereof, and a binder component; and
 - (b) a second layer comprising a metallic component adhered to the first layer.
2. (Currently amended) A heat insulating and fire resistant composite material comprising
 - (a) a substrate;
 - (b) a first layer adhered to the substrate to provide a coated substrate, said first layer comprising a surfactant component, surfactant-generated microcells, a gel catalyst component selected from the group consisting of thermosetting agents, vulcanizing agents, crosslinking agents and combinations thereof, a filler component comprising clay and a binder component, wherein said binder component bonds the filler material together and to the substrate and wherein said first layer does not bleed through the substrate; and
 - (c) a second layer comprising a metallic component adhered to the coated substrate.
3. (Canceled).

4. (Original) The composite material according to claim 2 wherein said substrate is planar and said first layer is adhered to one side of the substrate.
5. (Original) The composite material according to claim 2 wherein said substrate is planar and said first layer is adhered to both sides of the substrate.
6. (Original) The composite according to claims 4 or 5 wherein said second layer is adhered to one side of said coated substrate.
7. (Original) The composite according to claims 4 or 5 wherein said second layer is adhered to both sides of said coated substrate.
8. (Original) The composite material according to claims 1 or 2 further comprising a water repellant material.
9. (Original) The composite material according to claims 1 or 2 further comprising an antifungal material.
10. (Original) The composite material according to claims 1 or 2 further comprising an antibacterial material.
11. (Original) The composite material according to claims 1 or 2 further comprising a surface friction agent.
12. (Original) The composite material according to claims 1 or 2 further comprising a flame retardant material.
13. (Original) The composite material according to claims 1 or 2 further comprising an algicide.
14. (Original) The composite material according to claims 1 or 2 further comprising a dye.
15. (Original) The composite material according to claims 1 or 2, wherein the metallic component is selected from the group consisting of aluminum or stainless steel.

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16. (Original) The composite material according to claim 15 wherein the metallic component is aluminum foil.

17. (Original) The composite material according to claim 3 wherein the filler comprises clay.